



National Load Despatch Centre
राष्ट्रीय भार प्रेषण केंद्र
GRID CONTROLLER OF INDIA LIMITED
ग्रिड कंट्रोलर ऑफ इंडिया लिमिटेड

(Government of India Enterprise/ भारत सरकार का उद्यम)
B-9, QUTUB INSTITUTIONAL AREA, KATWARIA SARAI, NEW DELHI -110016
बी-9, कुतुब इन्स्टीट्यूशनल एरिया, कटवारिया सराये, न्यू दिल्ली-110016

Ref: POSOCO/NLDC/SO/Daily PSP Report

दिनांक: 29th March 2024

To,

- कार्यकारी निदेशक, पू.क्षे.भा.प्रे.के., 14, गोल्फ क्लब रोड, कोलकाता - 700033
Executive Director, ERLDC, 14 Golf Club Road, Tollygunge, Kolkata, 700033
- कार्यकारी निदेशक, ऊ.क्षे.भा.प्रे.के., 18/ए, शहीद जीत सिंह सनसनवाल मार्ग, नई दिल्ली - 110016
Executive Director, NRLDC, 18-A, Shaheed Jeet Singh Marg, Katwaria Sarai, New Delhi - 110016
- कार्यकारी निदेशक, प.क्षे.भा.प्रे.के., एफ3, एम आई डी सी क्षेत्र, अंधेरी, मुंबई -400093
Executive Director, WRLDC, F-3, M.I.D.C. Area, Marol, Andheri (East), Mumbai-400093
- कार्यकारी निदेशक, ऊ.पू.क्षे.भा.प्रे.के., डोंगतेह, लोअर नोंग्रह, लापलंग, शिलोंग - 793006
Executive Director, NERLDC, Dongteih, Lower Nongrah, Lapalang, Shillong - 793006, Meghalaya
- कार्यकारी निदेशक, द.क्षे.भा.प्रे.के., 29, रेस कोर्स क्रॉस रोड, बंगलुरु -560009
Executive Director, SRLDC, 29, Race Course Cross Road, Bangalore-560009

Sub: Daily PSP Report for the date 28.03.2024.

महोदय/Dear Sir,

आईईजीसी-2010 की धारा स.-5.5.1 के प्रावधान के अनुसार, दिनांक 28-मार्च -2024 की अखिल भारतीय प्रणाली की दैनिक ग्रिड निष्पादन रिपोर्ट रांभांप्रेके की वेबसाइट पर उपलब्ध है।

As per article 5.5.1 of the Indian Electricity Grid Code, the daily report pertaining power supply position of All India Power System for the date 28th March 2024, is available at the NLDC website.

धन्यवाद,

Report for previous day

Date of Reporting: 29-Mar-2024

A. Power Supply Position at All India and Regional level

	NR	WR	SR	ER	NER	TOTAL
Demand Met during Evening Peak hrs(MW) (at 19:00 hrs; from RLDCs)	55172	66749	44532	25265	2721	194439
Peak Shortage (MW)	180	0	0	173	0	353
Energy Met (MU)	1185	1585	1385	543	50	4748
Hydro Gen (MU)	145	43	64	22	12	287
Wind Gen (MU)	21	85	35	-	-	142
Solar Gen (MU)*	149.08	82.36	133.20	2.84	1.07	369
Energy Shortage (MU)	0.21	0.16	0.00	1.62	0.00	1.99
Maximum Demand Met During the Day (MW) (From NLDC SCADA)	55896	71401	66241	25556	2801	215341
Time Of Maximum Demand Met	19:15	10:51	10:53	18:53	18:11	10:55

B. Frequency Profile (%)

Region	FVI	< 49.7	49.7 - 49.8	49.8 - 49.9	< 49.9	49.9 - 50.05	> 50.05
All India	0.062	1.17	1.70	8.19	11.06	76.58	12.36

C. Power Supply Position in States

Region	States	Max.Demand Met during the day (MW)	Shortage during maximum Demand (MW)	Energy Met (MU)	Drawal Schedule (MU)	OD(+)/UD(-) (MU)	Max OD (MW)	Energy Shortage (MU)
NR	Punjab	7035	0	147.0	43.7	-0.5	251	0.00
	Haryana	6987	0	148.1	108.0	-1.0	108	0.00
	Rajasthan	13986	0	288.1	71.2	-1.9	321	0.00
	Delhi	4020	0	82.2	73.3	0.2	235	0.00
	UP	19591	0	387.2	109.9	-0.8	363	0.00
	Uttarakhand	2017	0	41.4	28.2	1.0	174	0.03
	HP	1692	0	31.4	19.0	-0.3	43	0.00
	J&K(UT) & Ladakh(UT)	2640	180	51.4	43.5	-1.8	286	0.18
	Chandigarh	208	0	3.9	3.7	0.2	29	0.00
Railways NR ISTS	185	0	3.7	3.9	-0.1	38	0.00	
WR	Chhattisgarh	6014	0	137.2	75.6	0.7	233	0.16
	Gujarat	21515	0	459.8	210.9	-19.5	1554	0.00
	MP	12576	0	267.8	137.4	-5.3	386	0.00
	Maharashtra	28735	0	643.8	224.1	-5.3	790	0.00
	Goa	748	0	16.1	12.9	2.9	255	0.00
	DNHDDPDCL	1271	0	29.4	29.4	0.0	58	0.00
	AMNSIL	825	0	18.8	8.7	0.2	239	0.00
	BALCO	523	0	12.5	12.6	-0.1	521	0.00
SR	Andhra Pradesh	12597	0	238.4	76.1	2.1	1039	0.00
	Telangana	292	0	290.9	157.8	-0.9	824	0.00
	Karnataka	16525	0	328.9	166.3	1.0	993	0.00
	Kerala	4971	0	103.8	80.1	1.5	301	0.00
	Tamil Nadu	19172	0	412.8	258.2	1.0	570	0.00
	Puducherry	453	0	10.2	9.8	-0.2	19	0.00
ER	Bihar	5099	0	99.7	87.1	1.2	331	0.30
	DVC	3384	0	72.7	-42.1	0.8	506	0.00
	Jharkhand	1761	0	37.7	26.2	-0.4	277	1.33
	Odisha	5891	0	129.6	51.7	1.6	465	0.00
	West Bengal	9480	0	201.4	48.9	0.1	282	0.00
	Sikkim	105	0	1.8	1.8	0.1	27	0.00
Railways ER ISTS	10	0	0.1	0.1	0.0	10	0.00	
NER	Arunachal Pradesh	166	0	2.7	3.0	-0.4	36	0.00
	Assam	1619	0	29.6	22.3	0.4	131	0.00
	Manipur	208	0	2.9	3.0	-0.1	22	0.00
	Meghalaya	398	0	6.0	4.9	-0.2	74	0.00
	Mizoram	127	0	1.8	1.8	-0.3	20	0.00
	Nagaland	146	0	2.1	2.2	-0.3	14	0.00
Tripura	234	0	4.4	4.8	0.2	36	0.00	

D. Transnational Exchanges (MU) - Import(+ve)/Export(-ve)

	Bhutan	Nepal	Bangladesh	Godda -> Bangladesh
Actual (MU)	-9.3	-11.2	-24.5	-23.8
Day Peak (MW)	-606.0	-503.8	-1108.0	-1034.0

E. Import/Export by Regions (in MU) - Import(+ve)/Export(-ve); OD(+)/UD(-)

	NR	WR	SR	ER	NER	TOTAL
Schedule(MU)	81.9	-272.0	284.8	-96.4	1.7	0.0
Actual(MU)	74.6	-271.5	293.6	-101.9	0.4	-4.8
O/D/U/D(MU)	-7.3	0.5	8.8	-5.5	-1.3	-4.8

F. Generation Outage(MW)

	NR	WR	SR	ER	NER	TOTAL	% Share
Central Sector	5740	9931	4078	5732	205	25685	52
State Sector	6491	10117	4053	2729	170	23559	48
Total	12231	20047	8131	8461	375	49244	100

G. Sourcewise generation (Gross) (MU)

	NR	WR	SR	ER	NER	All India	% Share
Coal	786	1679	795	706	17	3983	77
Lignite	27	21	69	0	0	117	2
Hydro	145	43	64	22	12	287	6
Nuclear	30	60	52	0	0	142	3
Gas, Naptha & Diesel	10	43	7	0	26	86	2
RES (Wind, Solar, Biomass & Others)	190	169	194	4	1	558	11
Total	1189	2016	1180	732	56	5173	100

Share of RES in total generation (%)	15.98	8.38	16.43	0.55	1.91	10.79
Share of Non-fossil fuel (Hydro,Nuclear and RES) in total generation(%)	30.77	13.52	26.23	3.56	23.21	19.08

H. All India Demand Diversity Factor

Based on Regional Max Demands	1.030
Based on State Max Demands	.9900

I. All India Peak Demand and shortage at Solar and Non-Solar Hour

	Max Demand Met(MW)	Time	Shortage(MW)
Solar hr	215341	10:55	0
Non-Solar hr	204597	19:15	353

Diversity factor = Sum of regional or state maximum demands / All India maximum demand

**Note: All generation MU figures are gross

***Godda (Jharkhand) -> Bangladesh power exchange is through the radial connection (isolated from Indian Grid)

Solar Hours -> 07:00 to 17:00hrs and rest are Non-Solar Hours

*Source: RLDCs for solar connected to ISTS; SLDCs for embedded solar. Limited visibility of embedded solar data.

Executive Director-NLDC

INTER-REGIONAL EXCHANGES

Import=(+ve) /Export =(-ve) for NET (MU)

Date of Reporting: 29-Mar-2024

Sl No	Voltage Level	Line Details	No. of Circuit	Max Import (MW)	Max Export (MW)	Import (MU)	Export (MU)	NET (MU)
Import/Export of ER (With NR)								
1	HVDC	ALIPURDUAR-AGRA	2	0	0	0.0	0.0	0.0
2	HVDC	PUSAULI B/B	-	0	49	0.0	1.2	-1.2
3	765 kV	GAYA-VARANASI	2	22	626	0.0	9.1	-9.1
4	765 kV	SASARAM-FATEHPUR	1	0	371	0.0	6.7	-6.7
5	765 kV	GAYA-BALIA	1	0	510	0.0	8.8	-8.8
6	400 kV	PUSAULI-VARANASI	1	0	75	0.0	1.2	-1.2
7	400 kV	PUSAULI-ALLAHABAD	1	25	24	0.1	0.0	0.1
8	400 kV	MUZAFFARPUR-GORAKHPUR	2	118	381	0.0	3.1	-3.1
9	400 kV	PATNA-BALIA	2	0	339	0.0	8.4	-8.4
10	400 kV	NAUBATPUR-BALIA	2	0	242	0.0	2.4	-2.4
11	400 kV	BIHARSHARIFF-BALIA	2	180	82	0.0	0.6	-0.6
12	400 kV	MOTIHARI-GORAKHPUR	2	223	303	0.0	0.7	-0.7
13	400 kV	BIHARSHARIFF-VARANASI	2	125	85	0.0	0.0	0.0
14	220 kV	SAHUPURI-KARAMNANA	1	5	70	0.0	0.8	-0.8
15	132 kV	NAGAR UNTARI-RIHAND	1	0	0	0.0	0.0	0.0
16	132 kV	GARWAH-RIHAND	1	30	0	0.7	0.0	0.7
17	132 kV	KARMANASA-SAHUPURI	1	0	0	0.0	0.0	0.0
18	132 kV	KARMANASA-CHANDALI	1	0	0	0.0	0.0	0.0
					ER-NR	0.8	42.9	-42.1
Import/Export of ER (With WR)								
1	765 kV	JHARSUGUDA-DHARAMJAIGARH	4	1469	0	24.5	0.0	24.5
2	765 kV	NEW RANCHI-DHARAMJAIGARH	2	724	914	0.0	5.9	-5.9
3	765 kV	JHARSUGUDA-DURG	2	0	893	0.0	15.0	-15.0
4	400 kV	JHARSUGUDA-RAIGARH	4	0	521	0.0	8.0	-8.0
5	400 kV	RANCHI-SIPAT	2	138	266	0.0	3.4	-3.4
6	220 kV	BUDHIPADAR-RAIGARH	1	0	125	0.0	1.7	-1.7
7	220 kV	BUDHIPADAR-KORBA	2	75	7	0.6	0.0	0.6
					ER-WR	25.1	34.1	-9.0
Import/Export of ER (With SR)								
1	HVDC	JEYPORE-GAZUWAKA B/B	2	0	593	0.0	14.1	-14.1
2	HVDC	TALCHER-KOLAR BIPOLE	2	0	1492	0.0	36.1	-36.1
3	765 kV	ANGUL-SRIKAKULAM	2	0	2800	0.0	57.9	-57.9
4	400 kV	TALCHER-I/C	2	415	0	8.5	0.0	8.5
5	220 kV	BALIMELA-UPPER-SILERRU	1	0	0	0.0	0.0	0.0
					ER-SR	0.0	108.2	-108.2
Import/Export of ER (With NER)								
1	400 kV	BINAGURI-BONGAIGAON	2	199	25	1.9	0.0	1.8
2	400 kV	ALIPURDUAR-BONGAIGAON	2	696	0	8.4	0.0	8.4
3	220 kV	ALIPURDUAR-SALAKATI	2	98	11	1.2	0.0	1.2
					ER-NER	11.4	0.0	11.4
Import/Export of NER (With NR)								
1	HVDC	BISWANATH CHARIALI-AGRA	2	652	0	11.6	0.0	11.6
					NER-NR	11.6	0.0	11.6
Import/Export of WR (With NR)								
1	HVDC	CHAMPA-KIRUKSHETRA	2	0	1509	0.0	34.8	-34.8
2	HVDC	VINDHYACHAL B/B	-	256	0	6.1	0.0	6.1
3	HVDC	MUNDRA-MOHINDERGARH	2	0	595	0.0	14.6	-14.6
4	765 kV	GWALIOR-AGRA	2	477	1592	0.5	11.3	-10.9
5	765 kV	GWALIOR-PHAGI	2	908	1151	3.4	12.8	-9.3
6	765 kV	JABALPUR-ORAI	2	243	681	0.0	8.4	-8.4
7	765 kV	GWALIOR-ORAI	1	666	0	10.7	0.0	10.7
8	765 kV	SATNA-ORAI	1	0	958	0.0	17.9	-17.9
9	765 kV	BANASKANTHA-CHITORGARH	2	1990	81	23.8	0.0	23.8
10	765 kV	VINDHYACHAL-VARANASI	2	0	2668	0.0	34.3	-34.3
11	400 kV	ZERDA-KANKROLI	1	387	0	9.3	0.0	9.3
12	400 kV	ZERDA -BHINMAL	1	407	0	5.4	0.0	5.4
13	400 kV	VINDHYACHAL -RIHAND	1	972	0	22.3	0.0	22.3
14	400 kV	RAPP-SHUALPUR	2	734	228	6.6	0.6	6.0
15	220 kV	BHANPURA-RANPUR	1	0	124	0.0	2.2	-2.2
16	220 kV	BHANPURA-MORAK	1	0	30	0.0	1.0	-1.0
17	220 kV	MEHGAON-AURAIYA	1	102	0	1.5	0.0	1.5
18	220 kV	MALANPUR-AURAIYA	1	71	6	0.8	0.0	0.8
19	132 kV	GWALIOR-SAWAI MADHOPUR	1	0	0	0.0	0.0	0.0
20	132 kV	RAJGHAT-LALITPUR	2	0	0	0.0	0.0	0.0
					WR-NR	90.4	137.9	-47.5
Import/Export of WR (With SR)								
1	HVDC	BHADRAWATI B/B	-	0	1014	0.0	13.9	-13.9
2	HVDC	RAIGARH-PUGALUR	2	0	5014	0.0	99.2	-99.2
3	765 kV	SOLAPUR-RAICHUR	2	0	1954	0.0	27.8	-27.8
4	765 kV	WARDHA-NIZAMABAD	2	0	2977	0.0	56.6	-56.6
5	765 kV	WARORA-WARANGAL(NEW)	2	0	2916	0.0	56.9	-56.9
6	400 kV	KOLHAPUR-KUDGI	2	1137	0	18.9	0.0	18.9
7	220 kV	KOLHAPUR-CHIKODI	2	0	0	0.0	0.0	0.0
8	220 kV	PONDA-AMBEWADI	1	0	0	0.0	0.0	0.0
9	220 kV	XELDEM-AMBEWADI	1	0	129	2.6	0.0	2.6
					WR-SR	21.5	254.4	-233.0

INTERNATIONAL EXCHANGES

Import(+ve)/Export(-ve)

State	Region	Line Name	Max (MW)	Min (MW)	Avg (MW)	Energy Exchange (MU)
BHUTAN	ER	400kV MANGDECHHU-ALIPURDUAR 1,2&3 i.e. ALIPURDUAR RECEIPT (from MANGDECHHU HEP 4*180MW)	-189	76	-102	-2.46
	ER	400kV TALA-BINAGURI 1,2,4 (& 400kV MALBASE - BINAGURI) i.e. BINAGURI RECEIPT (from TALA HEP 6*170MW)	-238	179	-83	-1.99
	ER	220kV CHUKHA-BIRPARA 1&2 (& 220kV MALBASE - BIRPARA) i.e. BIRPARA RECEIPT (from CHUKHA HEP 4*84MW)	-239	-131	-194	-4.67
	NER	132kV GELEPHU-SALAKATI	-26	0	-17	-0.41
	NER	132kV MOTANGA-RANGIA	28	0	10	0.25
NEPAL	NR	NEPAL IMPORT (FROM UP)	-66	0	-36	-0.86
	NR	132kV MAHENDRANAGAR-TANAKPUR(NHPC)	-66	0	-47	-1.12
	ER	NEPAL IMPORT (FROM BIHAR)	-174	-20	-94	-2.25
	ER	400kV DHALKEBAR-MUZAFFARPUR 1&2	-330	-146	-292	-7.00
BANGLADESH	ER	BHERAMARA B/B HVDC (B'DESH)	-970	-785	-902	-21.65
	ER (Isolated from Indian Grid)	400kV GODDA_TPS-RAHANPUR (B'DESH) D/C	-1034	-887	-991	-23.79
	NER	132kV COMILLA-SURAJMANI NAGAR 1&2	-138	0	-120	-2.88

CROSS BORDER EXCHANGE SCHEDULE

Date of Reporting: 29-Mar-2024

Export From India (in MU)

Country	GNA (ISGS/PPA)	T-GNA							TOTAL	
		BILATERAL TOTAL	COLLECTIVE							
			IDAM			RTM				
			IEX	PXIL	HPX	IEX	PXIL	HPX		
Bhutan	0.00	0.00	6.62	0.00	0.00	0.00	3.23	0.00	0.00	9.85
Nepal	0.28	0.00	7.85	0.00	0.00	0.00	0.04	0.00	0.00	8.17
Bangladesh	21.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.61
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Export	21.89	0.00	14.47	0.00	0.00	0.00	3.27	0.00	0.00	39.63

Import by India(in MU)

Country	GNA (ISGA/PPA)	T-GNA							TOTAL	
		BILATERAL TOTAL	COLLECTIVE							
			IDAM			RTM				
			IEX	PXIL	HPX	IEX	PXIL	HPX		
Bhutan	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.43
Nepal	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Bangladesh	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Import	0.43	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.43

Net from India(in MU)

-ve : Export / +ve : Import

Country	GNA (ISGS/PPA)	T-GNA							TOTAL	
		BILATERAL TOTAL	COLLECTIVE							
			IDAM			RTM				
			IEX	PXIL	HPX	IEX	PXIL	HPX		
Bhutan	0.43	0.00	-6.62	0.00	0.00	0.00	-3.23	0.00	0.00	-9.42
Nepal	-0.28	0.00	-7.85	0.00	0.00	0.00	-0.04	0.00	0.00	-8.17
Bangladesh	-21.61	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	-21.61
Myanmar	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Total Net	-21.46	0.00	-14.47	0.00	0.00	0.00	-3.27	0.00	0.00	-39.20